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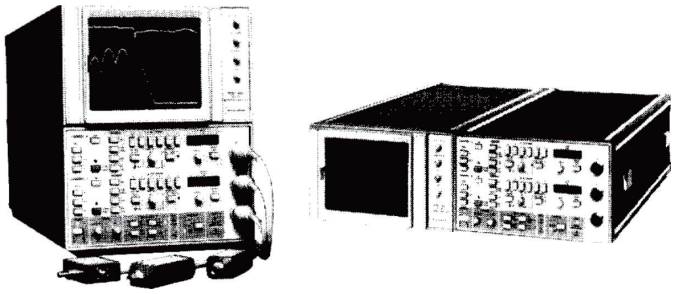
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Model 560A, 10 MHz to 40 GHz



560A Scalar Network Analyzer Highlights

- Simultaneous Transmission and Return Loss or Power Measurements
- 10 MHz to 40 GHz Range from Single Coaxial Test Port
- 40 dB Directivity to 18 GHz, 30 dB to 40 GHz
- GPIB Programmability
- Memory-Enhanced Accuracy
- 71 dB Dynamic Range (+16 dBm to –5

GPIB Compatible Network Analyzer

The 560A Scalar Network Analyzer makes automated, simultaneous measurement of transmission loss/gain and return loss or power over the 10 MHz to 40 GHz range. In its simple configuration, an automated system consists of a 560A, a Series SWR Autotester and Detector, a 6600B S Generator, and a GPIB desktop controller. Available so re includes programs for the HP 85, 9816S, 9826S, 983 , and the Fluke 1722WB, 1722DN, 1722WE, and 1722WA l software includes step-by-step normalization and meas ment procedures.

Highest Return Loss Accuracy

The accuracy with which return loss measurements are made result largely from the high directivity of the Wiltron SWR Autotesters. With directivities of 40 dB up to 18 GHz, 32 dB up to 26.5 GHz, and 30 dB up to 40 GHz, these SWR Autotesters are available with GPC–7, WSMA, Type N, and K Connector test ports. To eliminate the errors that would be introduced by adapters, the detectors are also available with the same selection of test ports. Detector return loss specifications of 22 dB from 0.04 to 8 GHz, 17 dB up to 20 GHz, 13 dB up to 26.5 GHz and 12 dB up to 40 GHz contribute significantly to the 560A's exceptional accuracy. The substantial errors introduced by multiplier-type oscillators are eliminated when a 6600B Sweep Generaor is used as the signal source.

Memory-Enhanced Performance

High accuracy is also ensured by the use of memory which stores and automatically subtracts system residual errors from the test data. The normalization procedure applies to power measurement as well, allowing direct measurements over the +16 dBm to –55 dBm range.

Specifications

Frequency Range: 10 MHz to 40 GHz, determined by selection of SWR Autotester and detector. The 560–10BX and 560–10BX 1 Adapter Cables provide interface to waveguide detectors.
Channels: Three, with selection of A, B, R, A–R, and B–R. Two channels are displayed simultaneously.
Dynamic Range: 71 dB (+16 dBm to –55 dBm) on channels A and B. 46 dB (+16 dBm to –30 dBm) on channel R.
Amplitude Resolution: 0.01 dB
Measurement Accuracy: Please see ACCURACY on page 34.
Temperature Range:
Operating: 0°C to +50°C
Storage: –40°C to +70°C
Power: 100V/120V/220V/240V +5%, –10%, 50–60 Hz, 85 VA max.
Dimensions:
560A Horizontal Model: 133 H x 429 W x 500 D mm
(5.25 H 16.9 W x 19.7 D in. + 3/8 in. for feet)
560A– Vertical Model: 267 H x 213 W x 500 D mm
(10.5 8.4 W x 19.7 D in. + 3/8 in. for feet)
A ption 1 Rack Mount: 133 H x 483 W x 500 D mm
5.25 H x 19 W x 19.7 D in.
ight:
60A and 560A–2: 11 4.5 lb)
560A Option 1: 13.5 (30 lb)

ormation

560A ar Network Analyzer, Horizontal Configuration
560 Scalar Network Analyzer, Vertical Configuration

WR Autotesters:
560–97A50, 10 MHz to 18 GHz, 36 dB directivity
560–97A50–1, 10 MHz to 18 GHz, 40 dB directivity
560–97N50, 10 MHz to 18 GHz, 35 dB directivity
560–97N50–1, 10 MHz to 18 GHz, 38 dB directivity
560–97NF50, 10 MHz to 18 GHz, 35 dB directivity
560–97NF50–1, 10 MHz to 18 GHz, 38 dB directivity
560–98K50, 10 MHz to 40 GHz, 30 dB directivity
560–98KF50, 10 MHz to 40 GHz, 30 dB directivity
560–98S50, 10 MHz to 26.5 GHz, 32 dB directivity
560–98S50–1, 10 MHz to 26.5 GHz, 35 dB directivity
560–98SF50, 10 MHz to 26.5 GHz, 32 dB directivity
560–98SF50–1, 10 MHz to 26.5 GHz, 35 dB directivity

Detectors:
560–7A50, 10 MHz to 18 GHz, GPC–7
560–7K50, 10 MHz to 40 GHz, K Male
560–7N50, 10 MHz to 18.5 GHz, N Male
560–7S50, 10 MHz to 18.5 GHz, WSMA Male
560–7S50–2, 10 MHz to 26.5 GHz, WSMA Male
560–7S50–3, 10 MHz to 34 GHz, WSMA Male

Sweep Generators Please see page 58 for selection.
Accessories: Please see page 36 for 560A accessories.

Options:
Rack Mounting for 560A, Option 1
GPIB Programmability, Option 3
Operation from 50–400 Hz Power Source, Option 4

GPIB Field Installation Kit, P/N 560–A–7094
Adapter to Connect 560A to HP 8620, P/N 560–B–8208
Transit Case 760–84 for 560A
Transit Case 760–56 for RF Components

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